

Project Weekly report

Topic:- Modelling and Prediction of Athletic Readiness based on Training Load

Group Name: QuadML

Project Definition: 7

Group Member's names:-

❖ Shashvi Shah, Riya Sudani, Dev Dave , Jeel Patel, Yashaswi Patel

1. Tasks Completed:

- Selected the top 5 features based on permutation importance and SHAP analysis.
- Performed clustering using these top 5 features.
- Determined the optimal number of clusters (7) using the Elbow method, Silhouette score, and Davies-Bouldin index.
- Analyzed the average mean of each cluster for interpretation.

2. Next week Plan:-

- Next week, we will focus on the cluster-based analysis by interpreting the characteristics of each cluster. Prepare a summary of findings from the cluster-based approach to include in the final report or presentation.